16-Foot Transonic Tunnel

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Activity:

National Aeronautics and Space Administration
Langley Research Center

HAMPTON , Virginia 23681
United States

Updated as of: Mar 20, 1996

Facility Type:

- Wind Tunnels
- Wind Tunnels, Transonic

Description:

The 16-Foot Transonic Tunnel complex provides NASA, DoD, and industry experimental support for the research and development of aerodynamic, flow distortion, and propulsion/airframe integration concepts. This facility is the only NASA facility devoted to propulsion integration research. This facility is capable of covering a Mach number rangeof 0.2 to 1.25 over a wide range of alpha/beta and nozzle pressures. Both powered and non-powered models are utilized during normal testing. With an average of 14-year's experience in engine/airframe and aerodynamic investigations, the staff is now working on future generation civil and military configurations. The facility will support Advanced Subsonic Transport, High-Speed Research, and High-Performance Military Programs in the future. Studies ranging from the inlet performance of military aircraft to the design of low drag nacelles and pylons for subsonic civil transports, as well as nozzle thrust vectoring and reversing, are conducted in this facility.

Available data file(s)

- Transonic Wind Tunnel Facilities

Facility Capability:

- propulsion research test
- test/jet exit
- wind tunnel/transonic

Parameters: